

WHAT IS CLAIMED IS:

- 1                   1.       A method of searching unstructured data stored in a database, the  
2 method comprising:  
3                   storing a plurality of electronic records in a common repository of  
4 electronic records in the database that provides an audit trail that cannot be altered or  
5 disabled by users of the system, wherein each electronic record comprises unstructured  
6 data stored in a character large-object (CLOB) format in a column of a table of the  
7 database;  
8                   creating a security protocol that protects the electronic records against  
9 unauthorized access;  
10                  creating a query designed to identify electronic records in the database  
11 that meet criteria designated in the query;  
12                  prior to executing the query, modifying the query in accordance with the  
13 security protocol to create a modified query; and  
14                  running the modified query against the unstructured data.
- 1                   2.       The method of claim 1 wherein the security protocol comprises a  
2 plurality of security rules and wherein the method further comprises the steps of:  
3                   allowing a user to identify elements in the unstructured data as indexed  
4 elements; and  
5                   allowing a user to create use the indexed elements to create the plurality  
6 of security rules
- 1                   3.       The method of claim 1 wherein access to electronic records in  
2 the common repository is automatically granted unless the security protocol restricts  
3 such access and wherein the security protocol comprises a plurality of security rules  
4 that restricts access to the electronic records within the database.
- 5                   4.       The method of claim 1 wherein access to electronic records in  
6 the common repository is automatically denied unless security protocol grants such  
7 access and wherein the security protocol comprises a plurality of security rules that  
8 grant access to the electronic record within the database.
- 1                   5.       The method of claim 1 wherein the plurality of electronic records  
2 are generated from multiple data sources.

1                   6.       The method of claim 5 wherein fields of the electronic record are  
2 filled with XML data based on a predefined mapping to multiple data sources.

1                   7.       The method of claim 1 wherein the unstructured data is stored in  
2 character large object (CLOB) format.

1                   8.       The method of claim 1 wherein the unstructured data comprises  
2 well-formed XML documents stored within a column of a table stored in the database.

1                   9.       The method of claim 1 further comprising allowing a user to  
2 enable and disable the security protocol.

1                   10.      A computer system for searching unstructured data stored in a  
2 database, the computer system comprising:

3                   a processor;

4                   a database; and

5                   a computer-readable memory coupled to the processor, the computer-  
6 readable memory configured to store a computer program;

7                   wherein the processor is operative with the computer program to:

8                   (i)       store a plurality of electronic records in a common repository of  
9 electronic records in the database that provides an audit trail that cannot be  
10 altered or disabled by users of the system, wherein each electronic record  
11 comprises unstructured data stored in a character large-object (CLOB) format in  
12 a column of a table of the database;

13                  (ii)      create a security protocol that protects the electronic records  
14 against unauthorized access;

15                  (iii)     create a query designed to identify electronic records in the  
16 database that meet criteria designated in the query;

17                  (iv)     modify the query in accordance with the security protocol to  
18 create a modified query prior to executing the query; and

19                  (v)      run the modified query against the unstructured data.

1                   11.      The computer system of claim 10 wherein the processor is  
2 further operative with the computer program to allow a user to identify elements in the  
3 unstructured data as indexed elements; and

4 allow a user to create use the indexed elements to create the plurality of  
5 security rules.

1 12. The computer system of claim 10 wherein the processor is  
2 further operative with the computer program to automatically grant access to electronic  
3 records in the database is unless security protocol restricts such access and wherein the  
4 security protocol comprises a plurality of security rules that restricts access to the  
5 electronic records within the database.

1 13. The computer system of claim 10 wherein the processor is  
2 further operative with the computer program to automatically deny access to electronic  
3 records in the database unless security protocol grants such access and wherein the  
4 security protocol comprises a plurality of security rules that grant access to the  
5 electronic records within the database.

1 14. The computer system of claim 10 wherein the plurality of  
2 electronic records are generated from multiple data sources.

1 15. The computer system of claim 14 wherein fields of the electronic  
2 record are filled with XML data based on a predefined mapping to multiple data  
3 sources.

1 16. The computer system of claim 15 wherein the unstructured data  
2 is stored in character large object (CLOB) format.

1 17. The computer system of claim 16 wherein the unstructured data  
2 comprises well-formed XML documents stored within a column of a table stored in the  
3 database.

1 18. A computer program stored on a computer-readable storage  
2 medium for searching unstructured data stored in a database, the computer program  
3 comprising:

4 code for storing a plurality of electronic records in a common repository  
5 of electronic records in the database that provides an audit trail that cannot be altered or  
6 disabled by users of the system, wherein each electronic record comprises unstructured

7 data stored in a character large-object (CLOB) format in a column of a table of the  
8 database;  
9 code for creating a security protocol that protects the electronic records  
10 against unauthorized access;  
11 code for creating a query designed to identify electronic records in the  
12 database that meet criteria designated in the query;  
13 code for modifying the query in accordance with the security protocol to  
14 create a modified query prior to executing the query; and  
15 code for running the modified query against the unstructured data.

1 19. The computer program of claim 18 wherein the program further  
2 comprises code for allowing a user to identify elements in the unstructured data as  
3 indexed elements; and  
4 code for allowing a user to create use the indexed elements to create the  
5 plurality of security rules.

1 20. The computer program of claim 19 wherein the program further  
2 comprises code for automatically granting access to electronic records in the database is  
3 unless security protocol restricts such access, wherein the security protocol comprises a  
4 plurality of security rules that restricts access to the electronic records within the  
5 database.

1 21. The computer program of claim 19 wherein the program further  
2 comprises code for automatically denying access to electronic records in the database  
3 unless security protocol grants such access, wherein the security protocol comprises a  
4 plurality of security rules that grant access to the electronic records within the database.

1 22. The computer program of claim 18 wherein the plurality of  
2 electronic records are generated from multiple data sources.

1 23. The computer program of claim 18 wherein fields of the  
2 electronic record are filled with XML data based on a predefined mapping to multiple  
3 data sources.

1 24. The computer program of claim 18 wherein the unstructured data  
2 is stored in character large object (CLOB) format.

1                    25.    The computer program of claim 18 wherein the unstructured data  
2   comprises well-formed XML documents stored within a column of a table stored in the  
3   database.